CPSC 464: Op. Sys Dr. Sam Thangiah Fall 2018

Weekly Group Report #3

Date of Report: October 1, 2018

Title of Project: Vehicle Routing Problem with Time Windows

Group Number: 3

1 – Nicole Huestis

2 – Braden MacBeth

3 – Alexander Volz

This week Alex has successfully gotten GitHub to work with Eclipse, uploaded the base Zeus code, and supplied the other group members with a tutorial to help them also get GitHub setup properly. All group members have continued to research and discuss Zeus and how to set everything up correctly for our different Heuristics, with particularly focus being on the selection heuristic which was stressed during our previous meeting. Our group hopes to make more progress, once again with the selection heuristic, especially with the implementation of it in particular, in the coming days before our next meeting and will update our reports according as that happens. We also intend to begin to plan out our next steps for this project which may heavy involve insertion since that seems to go along closely with selection so perhaps that is the next area where we will have to focus our attention to.

Updated 10/4/2018: Braden wrote the VRPTWRoot, VRPTW, VRPTWDepot, VRPTWDepotList, and File Class and was able to successfully load the data from the problem files. We met previously to discuss the implementation of these classes. Afterwards we met again to discuss the theory behind the VRPTW nearest neighbor heuristic. Nicole took thorough notes to help us understand how we should implement this heuristic. We had an in-depth discussion on how to lay out the code and started writing pseudocode after stepping through the problem.